

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P395029

Luminaire Tested: **I3-CL-50L940-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P395029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-CL-50L940-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

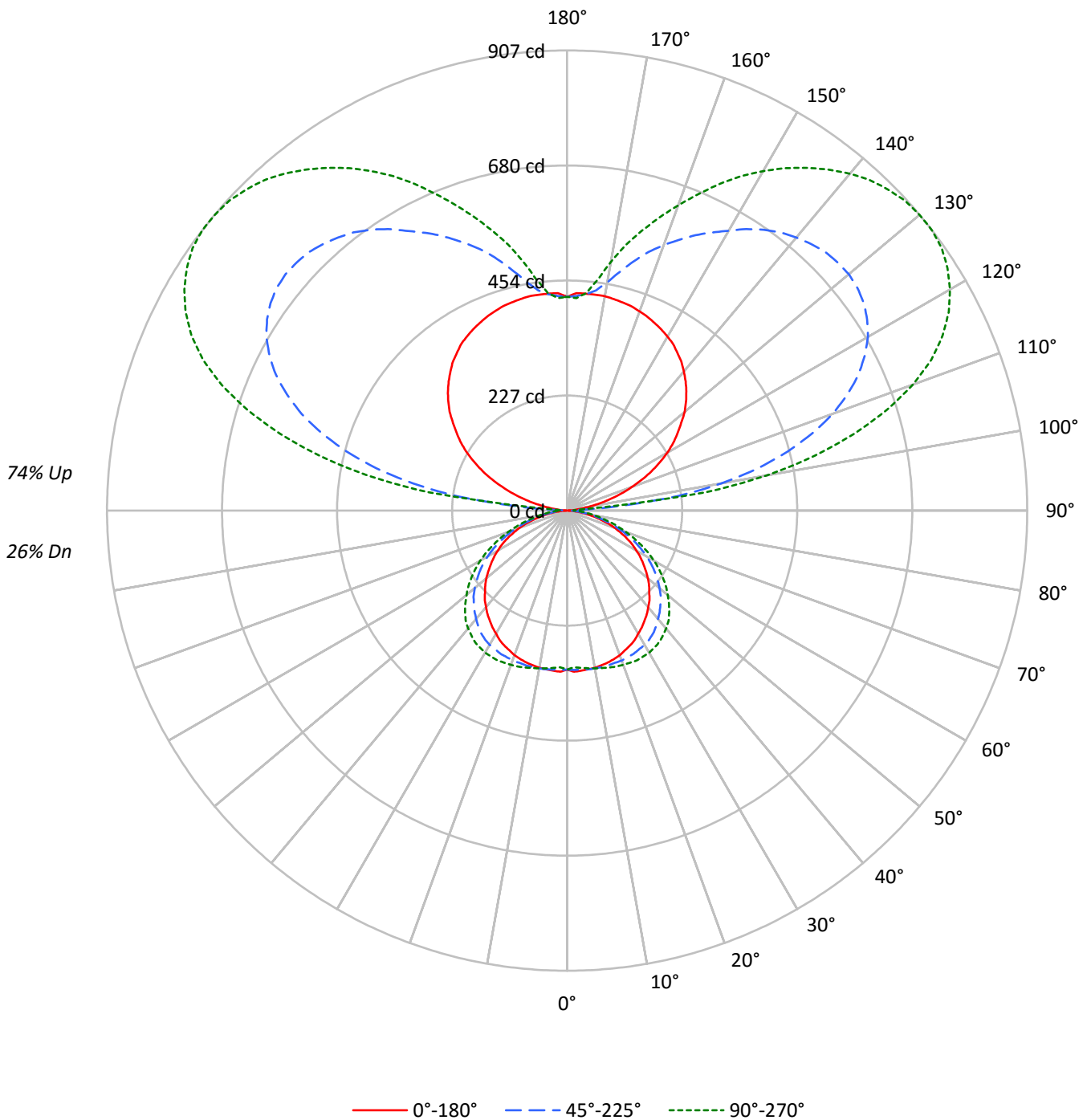
Lumens per Lamp: N/A
Luminaire Lumens: 4130.1 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1723	1723	1723
5°	1741	1696	1668
10°	1742	1683	1664
15°	1745	1677	1672
20°	1748	1677	1687
25°	1745	1679	1710
30°	1735	1682	1721
35°	1731	1672	1723
40°	1724	1636	1701
45°	1707	1597	1659
50°	1692	1544	1585
55°	1657	1466	1493
60°	1616	1364	1379
65°	1551	1224	1222
70°	1439	1042	1035
75°	1243	829	831
80°	964	590	608
85°	564	364	408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	0.7
10°-20°	89.1	2.2
20°-30°	142.8	3.5
30°-40°	182.7	4.4
40°-50°	199.2	4.8
50°-60°	186.6	4.5
60°-70°	144.8	3.5
70°-80°	83.0	2.0
80°-90°	26.5	0.6
90°-100°	106.5	2.6
100°-110°	414.1	10.0
110°-120°	563.7	13.6
120°-130°	585.2	14.2
130°-140°	519.1	12.6
140°-150°	402.8	9.8
150°-160°	268.8	6.5
160°-170°	143.3	3.5
170°-180°	41.9	1.0
0°-30°	261.9	6.3
0°-40°	444.6	10.8
0°-60°	830.4	20.1
0°-90°	1084.7	26.3
90°-120°	1084.3	26.3
90°-150°	2591.4	62.7
90°-180°	3045.0	73.7
0°-180°	4130.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	313	313	313	313	313	
5°	317	313	314	313	311	30
15°	310	309	316	320	320	88
25°	293	296	311	322	326	135
35°	266	271	296	311	317	166
45°	229	239	260	277	284	177
55°	183	193	211	226	230	164
65°	130	136	148	158	161	128
75°	68	71	78	86	88	72
85°	13	16	23	30	31	16
90°	1	3	8	11	13	2
95°	13	76	103	21	20	18
105°	88	266	450	535	586	94
115°	183	410	634	745	817	181
125°	266	483	714	838	901	238
135°	332	509	720	845	895	256
145°	379	509	676	785	825	237
155°	408	481	599	679	710	188
165°	424	442	509	557	571	120
175°	429	427	428	430	430	41
180°	421	421	421	421	421	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4
2.5°	317.9	316.7	316.7	314.5	314.5	313.4	313.4	313.4	313.4	313.4	314.5
5°	316.7	316.7	315.7	314.5	314.5	313.4	313.4	313.4	313.4	313.4	314.5
7.5°	315.7	315.7	314.5	313.4	313.4	313.4	313.4	313.4	313.4	313.4	315.7
10°	314.5	314.5	313.4	312.3	312.3	312.3	312.3	313.4	313.4	313.4	315.7
12.5°	312.3	311.2	311.2	310.1	310.1	310.1	311.2	311.2	312.3	313.4	315.7
15°	310.1	310.1	309.0	307.8	309.0	309.0	309.0	310.1	311.2	312.3	315.7
17.5°	306.8	306.8	305.6	305.6	305.6	306.8	306.8	307.8	310.1	312.3	314.5
20°	303.4	302.3	302.3	302.3	303.4	303.4	304.5	306.8	307.8	311.2	314.5
22.5°	297.8	299.0	297.8	297.8	299.0	300.0	301.2	303.4	305.6	309.0	312.3
25°	293.4	293.4	293.4	293.4	295.6	295.6	297.8	300.0	303.4	306.8	311.2
27.5°	287.9	287.9	287.9	288.9	290.1	291.2	292.3	295.6	299.0	303.4	307.8
30°	280.1	280.1	280.1	280.1	283.4	284.5	286.7	291.2	294.5	300.0	305.6
32.5°	273.4	273.4	273.4	274.5	276.7	277.9	280.1	285.7	290.1	295.6	301.2
35°	265.6	265.6	266.8	266.8	270.0	271.2	273.4	277.9	282.3	288.9	295.6
37.5°	257.8	257.8	259.0	260.0	262.3	264.5	266.8	271.2	275.6	281.1	287.9
40°	248.9	248.9	250.1	251.2	254.5	256.7	259.0	263.4	267.8	273.4	278.9
42.5°	240.1	240.1	241.1	242.3	245.7	247.9	250.1	255.6	260.0	265.6	270.0
45°	229.0	230.0	231.2	233.4	236.7	238.9	241.1	245.7	251.2	255.6	260.0
47.5°	219.0	220.0	221.2	223.4	226.8	229.0	231.2	235.6	240.1	244.5	250.1
50°	207.9	208.9	210.1	212.3	215.6	217.8	220.0	224.5	229.0	232.3	237.8
52.5°	195.6	196.7	197.8	200.1	204.5	205.6	207.9	212.3	215.6	220.0	224.5
55°	183.4	184.5	185.6	187.8	191.2	193.4	194.5	198.9	202.3	206.7	211.1
57.5°	171.1	172.3	173.3	175.6	177.8	180.0	181.2	184.5	189.0	192.2	196.7
60°	157.8	158.9	160.0	161.1	164.5	165.6	166.7	170.1	173.3	177.8	181.2
62.5°	144.5	144.5	145.6	146.7	150.0	151.2	152.2	154.5	158.9	161.1	164.5
65°	130.1	130.1	131.1	132.3	134.5	135.6	136.7	138.9	142.3	144.5	147.8
67.5°	114.4	114.4	115.6	116.7	118.9	120.0	120.0	123.4	125.6	127.8	130.1
70°	100.0	100.0	101.1	101.1	102.3	103.4	104.5	106.7	107.8	111.2	112.2
72.5°	84.5	84.5	84.5	84.5	86.7	86.7	87.8	90.0	91.1	93.3	95.5
75°	67.8	67.8	68.9	68.9	70.0	71.2	72.2	73.4	75.6	76.6	77.8
77.5°	53.3	52.3	53.3	54.5	55.5	55.5	56.7	57.7	58.9	61.1	62.3
80°	37.8	37.8	37.8	38.9	40.0	40.0	41.1	42.2	43.4	45.6	46.7
82.5°	24.5	24.5	25.5	25.5	26.7	27.8	27.8	28.9	30.0	32.2	33.4
85°	13.3	13.3	13.3	14.5	15.5	15.5	16.7	17.7	20.0	21.1	23.3
87.5°	4.4	4.4	5.6	6.7	7.8	7.8	8.9	10.0	11.1	13.3	14.5
90°	1.1	1.1	1.1	2.2	2.2	3.4	3.4	4.4	5.6	6.7	7.8
92.5°	4.4	7.8	12.2	17.7	16.7	17.7	12.2	7.8	7.8	7.8	8.9
95°	13.3	20.0	32.2	51.1	66.7	75.6	83.4	91.1	106.7	107.8	103.4
97.5°	26.7	36.6	58.9	83.4	111.2	125.6	136.7	160.0	184.5	200.1	219.0
100°	44.4	58.9	87.8	121.1	153.4	172.3	190.0	223.4	253.4	280.1	309.0
102.5°	65.6	82.2	117.8	158.9	198.9	220.0	238.9	277.9	318.9	354.5	385.6
105°	87.8	106.7	149.0	195.6	241.1	265.6	288.9	331.2	374.6	413.4	450.1
107.5°	112.2	132.3	177.8	230.0	281.1	309.0	334.5	380.1	425.7	467.9	506.8
110°	135.6	157.8	205.6	262.3	320.1	347.9	373.4	423.4	471.3	515.7	556.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	160.0	183.4	231.2	293.4	352.3	381.2	407.9	461.2	511.3	556.8	597.9
115°	183.4	205.6	255.6	320.1	380.1	410.1	439.0	493.4	545.7	591.3	633.5
117.5°	205.6	226.8	277.9	342.3	404.5	434.5	463.5	520.1	572.4	620.1	661.3
120°	227.8	246.7	302.3	361.2	424.5	454.6	484.6	541.3	594.6	642.4	684.6
122.5°	247.9	265.6	320.1	377.8	440.1	471.3	500.1	557.9	612.4	660.1	701.3
125°	265.6	282.3	336.8	391.2	453.4	483.4	513.5	570.2	624.6	671.3	713.5
127.5°	283.4	300.0	349.0	404.5	462.3	493.4	522.4	579.0	632.4	680.2	721.3
130°	302.3	314.5	361.2	416.8	471.3	500.1	530.2	584.5	636.8	683.5	724.6
132.5°	317.9	329.0	373.4	426.8	477.9	505.7	532.4	586.8	639.0	683.5	723.5
135°	332.3	341.2	382.3	435.7	483.4	509.0	534.6	585.7	636.8	681.2	720.2
137.5°	345.6	354.5	390.1	442.3	487.9	510.1	534.6	582.3	631.3	675.7	712.4
140°	357.9	364.5	396.7	445.7	490.2	511.3	532.4	576.8	622.3	665.7	702.4
142.5°	370.1	375.6	402.3	447.9	491.2	511.3	531.2	570.2	612.4	654.6	691.3
145°	379.0	384.5	406.8	449.0	490.2	509.0	526.8	563.4	601.2	640.2	675.7
147.5°	389.0	393.5	411.2	446.8	486.8	504.5	521.2	554.6	589.0	624.6	657.9
150°	395.7	400.1	413.4	444.6	481.2	497.9	514.5	545.7	576.8	607.9	636.8
152.5°	402.3	405.7	416.8	441.2	474.5	490.2	505.7	535.7	564.6	592.4	617.9
155°	407.9	411.2	419.0	439.0	466.8	481.2	495.7	524.6	551.3	575.7	599.0
157.5°	413.4	415.6	421.2	435.7	457.9	471.3	484.6	510.1	534.6	559.0	577.9
160°	417.8	419.0	423.4	434.5	450.1	460.1	472.3	495.7	517.9	539.0	556.8
162.5°	422.3	422.3	425.7	432.3	443.4	450.1	459.0	479.0	499.0	517.9	534.6
165°	424.5	424.5	426.8	431.2	437.9	442.3	447.9	461.2	476.8	493.4	509.0
167.5°	426.8	426.8	427.9	430.1	434.5	436.7	439.0	447.9	457.9	470.1	482.3
170°	429.0	427.9	427.9	430.1	431.2	432.3	433.5	437.9	442.3	450.1	456.8
172.5°	429.0	427.9	427.9	429.0	429.0	429.0	429.0	430.1	431.2	435.7	437.9
175°	429.0	427.9	427.9	427.9	427.9	426.8	426.8	426.8	426.8	426.8	427.9
177.5°	429.0	427.9	426.8	426.8	425.7	425.7	424.5	424.5	423.4	423.4	423.4
180°	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4
2.5°	314.5	314.5	313.4	313.4	312.3	312.3	311.2	310.1	309.0	309.0
5°	315.7	314.5	313.4	313.4	313.4	312.3	312.3	312.3	311.2	311.2
7.5°	315.7	315.7	315.7	314.5	314.5	314.5	314.5	314.5	313.4	313.4
10°	316.7	316.7	316.7	316.7	316.7	316.7	316.7	315.7	315.7	315.7
12.5°	316.7	316.7	316.7	317.9	317.9	317.9	317.9	317.9	317.9	317.9
15°	317.9	317.9	318.9	318.9	320.1	320.1	321.1	321.1	321.1	320.1
17.5°	316.7	317.9	318.9	320.1	321.1	321.1	322.3	322.3	322.3	322.3
20°	316.7	318.9	320.1	321.1	322.3	322.3	323.4	324.5	324.5	323.4
22.5°	315.7	317.9	318.9	321.1	322.3	322.3	324.5	324.5	324.5	324.5
25°	314.5	316.7	318.9	321.1	322.3	322.3	324.5	324.5	325.7	325.7
27.5°	312.3	314.5	317.9	320.1	321.1	322.3	323.4	324.5	324.5	324.5
30°	309.0	312.3	315.7	317.9	318.9	320.1	321.1	322.3	323.4	323.4
32.5°	304.5	307.8	311.2	314.5	315.7	316.7	318.9	320.1	320.1	320.1
35°	300.0	303.4	306.8	310.1	311.2	312.3	314.5	315.7	316.7	316.7
37.5°	293.4	296.8	300.0	303.4	304.5	306.8	309.0	310.1	310.1	310.1
40°	283.4	288.9	293.4	296.8	297.8	300.0	301.2	303.4	303.4	303.4
42.5°	274.5	278.9	282.3	286.7	287.9	291.2	293.4	294.5	295.6	295.6
45°	264.5	269.0	272.3	275.6	276.7	278.9	281.1	282.3	283.4	284.5
47.5°	254.5	257.8	261.2	264.5	265.6	267.8	270.0	271.2	272.3	272.3
50°	242.3	245.7	248.9	252.3	253.4	255.6	256.7	257.8	259.0	259.0
52.5°	229.0	232.3	235.6	238.9	240.1	241.1	243.4	244.5	245.7	245.7
55°	215.6	219.0	221.2	224.5	225.6	226.8	227.8	230.0	231.2	230.0
57.5°	200.1	203.4	205.6	208.9	210.1	211.1	212.3	213.4	214.5	214.5
60°	183.4	186.8	190.0	192.2	193.4	194.5	195.6	196.7	197.8	197.8
62.5°	166.7	170.1	172.3	175.6	176.7	176.7	177.8	178.9	180.0	180.0
65°	150.0	153.4	154.5	157.8	157.8	158.9	160.0	161.1	161.1	161.1
67.5°	132.3	135.6	136.7	138.9	138.9	140.0	141.1	142.3	142.3	142.3
70°	115.6	116.7	118.9	120.0	121.1	121.1	122.2	123.4	124.5	123.4
72.5°	97.8	98.9	101.1	102.3	102.3	103.4	103.4	104.5	105.6	105.6
75°	80.0	82.2	83.4	84.5	85.6	85.6	86.7	87.8	87.8	87.8
77.5°	63.3	65.6	66.7	67.8	68.9	68.9	70.0	70.0	71.2	70.0
80°	48.9	50.0	51.1	52.3	53.3	53.3	54.5	55.5	55.5	55.5
82.5°	35.6	36.6	38.9	40.0	40.0	40.0	42.2	42.2	43.4	42.2
85°	24.5	25.5	27.8	28.9	30.0	30.0	30.0	31.1	32.2	31.1
87.5°	15.5	17.7	18.9	20.0	20.0	20.0	21.1	22.3	22.3	22.3
90°	8.9	8.9	10.0	11.1	11.1	12.2	12.2	13.3	13.3	13.3
92.5°	8.9	10.0	10.0	10.0	11.1	11.1	11.1	12.2	12.2	12.2
95°	75.6	54.5	31.1	24.5	21.1	21.1	20.0	21.1	20.0	20.0
97.5°	229.0	247.9	256.7	269.0	275.6	274.5	270.0	274.5	271.2	274.5
100°	325.7	343.4	356.7	360.1	366.7	370.1	382.3	391.2	395.7	401.2
102.5°	404.5	425.7	441.2	450.1	456.8	461.2	475.7	489.0	495.7	500.1
105°	476.8	499.0	517.9	526.8	534.6	539.0	554.6	570.2	580.1	585.7
107.5°	534.6	560.2	580.1	593.5	601.2	609.0	627.9	643.4	655.7	661.3
110°	586.8	612.4	633.5	649.0	657.9	665.7	686.8	704.6	718.0	724.6



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CATALOG NUMBER: I3-CL-50L940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	630.1	657.9	679.0	695.7	704.6	715.8	735.7	755.8	769.1	776.9
115°	665.7	694.6	716.8	734.7	744.6	754.6	777.9	798.0	811.3	816.9
117.5°	695.7	724.6	748.0	765.7	776.9	788.0	811.3	829.0	843.5	847.9
120°	720.2	749.0	772.4	792.4	803.5	813.5	835.8	854.7	868.0	871.3
122.5°	736.9	766.9	791.3	813.5	823.5	833.6	854.7	873.6	885.7	889.1
125°	749.0	780.2	804.7	828.0	838.0	847.9	868.0	886.9	896.9	901.4
127.5°	756.8	788.0	814.7	836.9	847.9	856.9	876.9	893.5	903.6	906.8
130°	759.0	791.3	818.0	841.3	851.3	860.2	879.1	895.8	904.6	906.8
132.5°	759.0	790.2	818.0	840.2	850.2	859.1	876.9	892.4	901.4	903.6
135°	754.6	784.6	812.4	834.6	844.7	853.5	871.3	884.7	893.5	894.7
137.5°	746.8	775.7	802.4	824.6	834.6	843.5	859.1	873.6	881.3	883.5
140°	736.9	763.5	790.2	811.3	821.3	829.0	844.7	856.9	864.6	866.8
142.5°	723.5	750.2	774.7	795.8	803.5	812.4	825.8	838.0	844.7	846.9
145°	709.0	734.7	756.8	775.7	784.6	792.4	804.7	815.7	822.4	824.6
147.5°	690.2	715.8	736.9	754.6	762.4	770.2	781.3	791.3	798.0	800.2
150°	666.8	690.2	712.4	729.1	736.9	744.6	755.8	764.6	771.3	772.4
152.5°	643.4	665.7	684.6	701.3	709.0	716.8	726.8	735.7	743.5	743.5
155°	621.3	640.2	657.9	672.4	679.0	685.7	695.7	703.5	710.2	710.2
157.5°	597.9	615.7	630.1	643.4	649.0	654.6	663.5	670.2	675.7	674.6
160°	575.7	589.0	602.4	613.5	619.1	623.5	630.1	635.7	641.2	640.2
162.5°	551.3	563.4	574.6	582.3	586.8	590.1	596.8	602.4	605.7	605.7
165°	523.4	534.6	544.5	552.3	556.8	559.0	564.6	567.9	571.2	571.2
167.5°	494.6	503.5	512.3	519.0	523.4	525.6	531.2	533.4	537.9	536.8
170°	465.7	472.3	479.0	484.6	486.8	489.0	493.4	495.7	497.9	497.9
172.5°	442.3	444.6	447.9	452.4	452.4	453.4	455.6	456.8	457.9	457.9
175°	429.0	430.1	430.1	430.1	430.1	430.1	431.2	430.1	431.2	430.1
177.5°	423.4	423.4	422.3	422.3	421.2	422.3	421.2	420.1	420.1	419.0
180°	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2	421.2

(END OF REPORT)